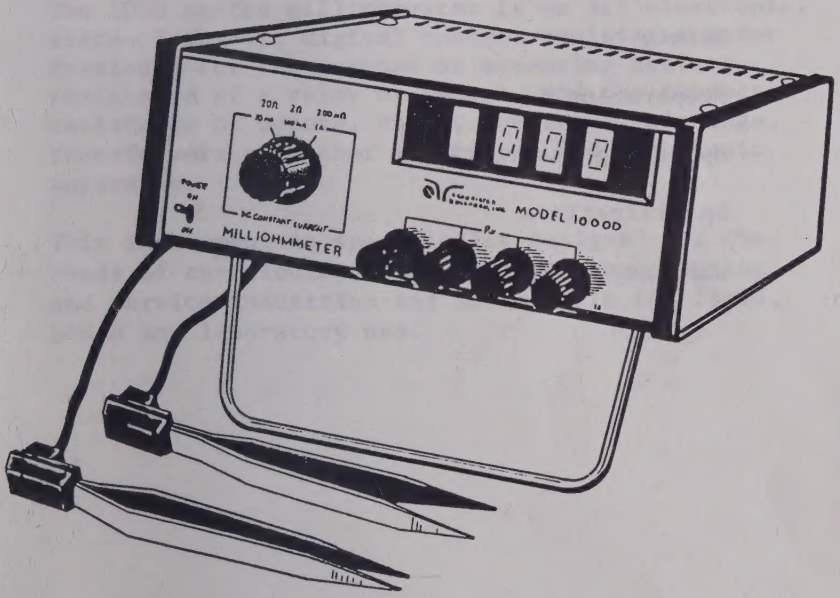
DIGITAL

MILLIOHMMETER



MODEL 1000D

MP MASTER
MA30069

ASSOCIATED RESEARCH, INC.

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INTRODUCTION

The 1000 series milliohmmeter is an all electronic, state-of-the-art digital contact resistance meter developed for the purpose of measuring contact resistance of a relay or switch, and the conductor resistance of motors, coils, armatures, windings, transformers and other electrical and electronic apparatus.

This instrument is specifically designed for the needs of the electrical/electronic manufacturing and service industries and is suitable for field, bench and laboratory use.

SAFETY

Before preparing for a test and before operating the equipment, observe all safety rules. Be sure all safety gear is available and in good condition. When switches or breakers are opened for a test, be sure they are locked out and guards and safety signs are posted. Always test a disconnected circuit or apparatus for presence of voltage. Always apply a ground to a disconnected circuit before and after a test to prevent static charges.

PREPARATION FOR TEST

Take equipment or circuits out of service. Use a voltmeter to check between terminals and ground to be sure no voltage is present.

The equipment to be tested must be completely disconnected from the power source for safety and to prevent damage to test equipment. In the case of rotating machinery, transformers, switches, etc., disconnect all leads. Inspect the wiring to determine exactly what will be included in the test. If switches or fuses are left in a circuit tested, they too will be tested and influence readings.

OPERATING INSTRUCTIONS

CAUTION: BE CERTAIN THAT THE EQUIPMENT TO BE TESTED IS DE-ENERGIZED BEFORE ATTEMPTING TO MAKE ANY MEASUREMENTS.

To measure resistance:

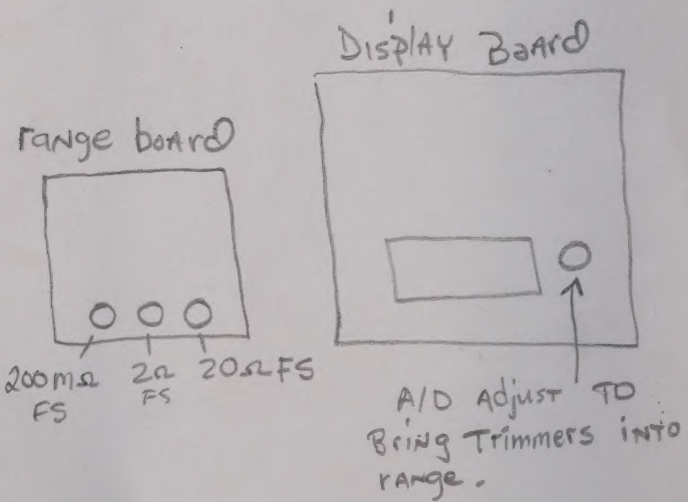
1. Check for voltage to make sure the equipment to be tested is de-energized and no static charge is present.

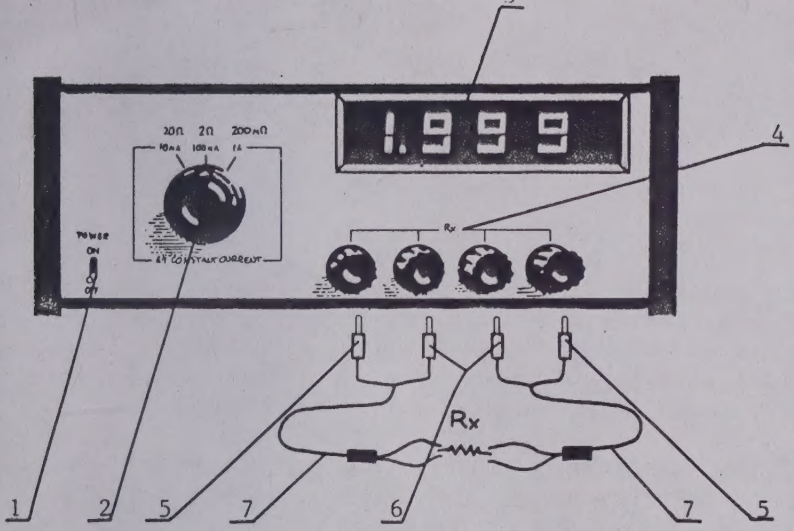
2. Set the range selector switch to the desired range.

3. Connect the test leads to the measuring terminals T1, T2, - T3, T4 respectively.

4. Turn the power switch on. The display should show the over range condition with the "0" figures of the lower 3 digits flashing.

5. Connect the test leads to the item being tested. The resistance value will be indicated on the LED display.





Model 1000D, DA, DB

1. Power ON/OFF Switch
2. Range Selector Switch
3. 3½ Digit LED Display
4. Measuring Terminals
5. Current Terminals (T1, T4)
6. Voltage Terminals (T2, T3)
7. Measuring Leads

SPECIFICATIONS

Ranges/Current:

0-199.9 milliohms/1 amp
0-1.999 ohms/100 milliamps
0-19.99 ohms/10 milliamps

Input:

110 VAC 50/60 Hz (1000D)
230 VAC 50/60 Hz (1000DA)
Battery operated: same specs as above (Model 1000DB)

Resolution:

0.1 milliohm on 199.9 milliohm range

Operating Temperature Range:

5°-40° C (15°-30° C for guaranteed accuracy)

Accuracy:

±1%±1 digit (199.9 milliohm)
±0.5%±1 digit (1.999 ohms & 19.99 ohms)

Weight:

5 lbs. (2.3 kg)

DIGITAL MILLIOHMMETER WARRANTY

Models: 1000D, 1000DA, 1000DB

This new Digital Milliohmmeter is warranteed to be free from defects in workmanship and material for one year from the date of shipment, provided there is no evidence of modifications, tampering or physical damage. By-passing any safety systems will void this warranty.

THIS WARRANTY DOES NOT COVER TUBES, BATTERIES OR ACCESSORIES NOT OF ASSOCIATED RESEARCH MANUFACTURE.

Any unit found defective under this warranty will be repaired free of charge if returned to the factory prepaid and insured.

EXCEPT AS PROVIDED HEREIN, ASSOCIATED RESEARCH MAKES NO WARRANTIES TO THE PURCHASE OF THIS UNIT AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, (INCLUDING, WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY EXCLUDED, DISCLAIMED AND WAIVED.

To avoid delay, before returning the instrument for repair, you must first contact Associated Research for authorization and shipping instructions.

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